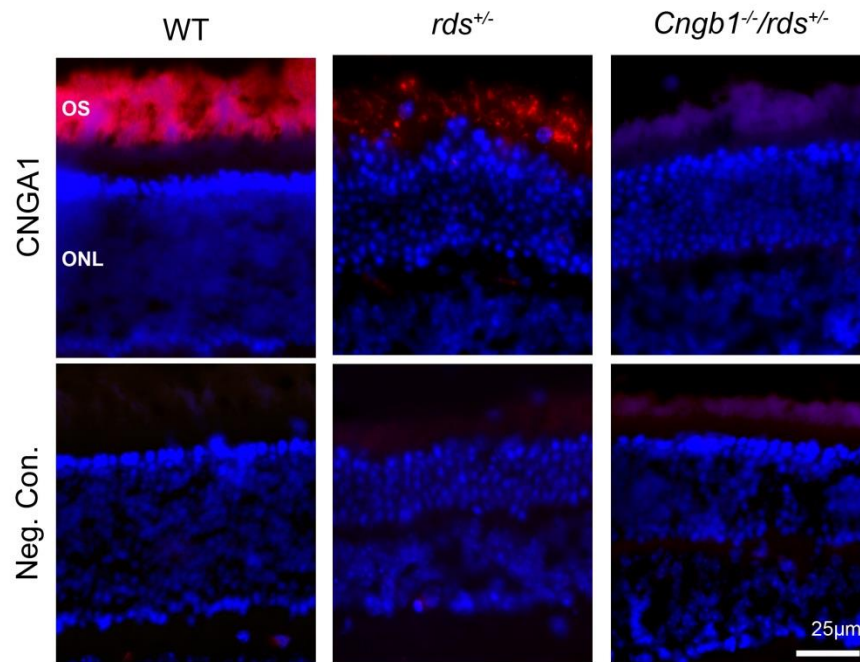
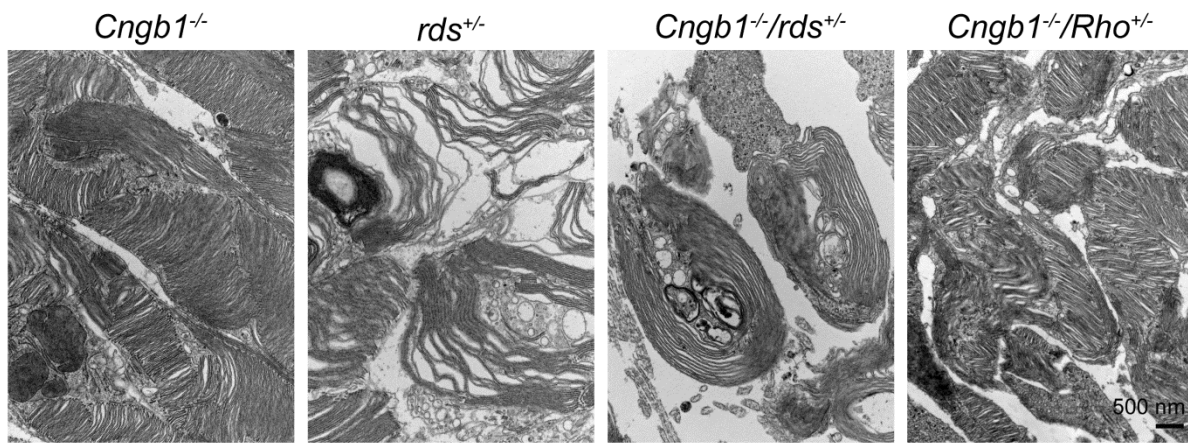


Supplementary Figure S1



Supplementary Figure S1: *Cngb1*^{-/-}/*rds*^{+/-} retinas have no detectable CNGA1. Retinal sections from the indicated genotypes were labeled with mAB 1D1 (CNGA1, red) or IgG control (Neg. Con.). Previous studies have shown that CNGA1 levels are nearly undetectable in the *Cngb1*^{-/-},² a finding here recapitulated in the *Cngb1*^{-/-}/*rds*^{+/-}. Scale bar: 25 μm, OS: outer segment, ONL: outer nuclear layer.

Supplementary Figure S2



Supplementary Figure S2: OS ultrastructure at P30. Shown are additional representative TEM images (to further explore what is shown in Figure 4C) captured from the indicated genotypes at P30. Scale bars: 500 nm.

Supplementary References

1. Huttl S, Michalakis S, Seeliger M, et al. Impaired channel targeting and retinal degeneration in mice lacking the cyclic nucleotide-gated channel subunit CNGB1. *J Neurosci* 2005;25:130-138.
2. Zhang Y, Molday LL, Molday RS, et al. Knockout of GARPs and the beta-subunit of the rod cGMP-gated channel disrupts disk morphogenesis and rod outer segment structural integrity. *J Cell Sci* 2009;122:1192-1200.